Nonparametric UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	8/2/2013 12:17:06 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
mber of Bootstrap Operations	2000

Aroclor

General Statistics

Total Number of Observations	42	Number of Distinct Observations	36
Number of Detects	19	Number of Non-Detects	23
Number of Distinct Detects	18	Number of Distinct Non-Detects	18
Minimum Detect	4.95	Minimum Non-Detect	1.3
Maximum Detect	20.45	Maximum Non-Detect	9.8
Variance Detects	17.2	Percent Non-Detects	54.76%
Mean Detects	9.097	SD Detects	4.147
Median Detects	7.7	CV Detects	0.456
Skewness Detects	1.514	Kurtosis Detects	1.899
Mean of Logged Detects	2.127	SD of Logged Detects	0.395

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	4.931	Standard Error of Mean	0.755
SD	4.719	95% KM (BCA) UCL	6.272
95% KM (t) UCL	6.201	95% KM (Percentile Bootstrap) UCL	6.14
95% KM (z) UCL	6.172	95% KM Bootstrap t UCL	6.443
90% KM Chebyshev UCL	7.195	95% KM Chebyshev UCL	8.221
97.5% KM Chebyshev UCL	9.644	99% KM Chebyshev UCL	12.44

Suggested UCL to Use

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia